

***October 17-19, 2000***  
**National Energy Technology Laboratory**  
**Morgantown, West Virginia**

*Sponsored by:*

U.S. DOE National Energy Technology Laboratory

# ***Industry Partnerships for Environmental Science and Technology***

The U.S. Department of Energy's National Energy Technology Laboratory (NETL) invites you to attend the Industry Partnerships for Environmental Science and Technology Conference on October 17-19, 2000, at the National Energy Technology Laboratory in Morgantown, West Virginia.

This technical conference is being sponsored by NETL to provide a forum for private sector organizations, potential users of technologies, and other interested parties to review the status of technology-based solutions being developed under the Office of Environmental Management/Office of Science and Technology's Industry Programs.

The conference will address technical accomplishments and technology needs, and lay the groundwork for future opportunities for partnerships and new solutions to EM's cleanup needs. Presentations, panel discussions, and poster sessions will feature the involvement of the private sector and universities to develop and deploy technologies that address environmental restoration and waste management needs at DOE facilities.

We look forward to seeing you at the conference.

# Agenda

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## **Industry Partnerships for Environmental Science and Technology Conference**

*Industry and University Programs: Opening EM Science and Technology to the Entire Community of Science*

### **Tuesday, October 17, 2000**

7:30 a.m.                      *Registration/Continental Breakfast*

8:10 a.m.                      Robert C. Bedick, Product Manager, Industry and University Programs  
Paul W. Hart, Associate Director, Office of Environmental Management  
U.S. DOE National Energy Technology Laboratory

### **Plenary Session I**

Session Chair: Paul W. Hart, U.S. DOE NETL

8:20 a.m.                      *Keynote Speaker*  
Carolyn L. Huntoon, Assistant Secretary (*Invited*)  
U.S. DOE Environmental Management

8:40 a.m.                      *Future Directions of OST*  
Gerald G. Boyd, Deputy Assistant Secretary  
U.S. DOE Environmental Management, Office of Science and Technology

9:05 a.m.                      *EM Technology Development and Deployment — NETL Perspective*  
Rita A. Bajura, Director  
U.S. DOE National Energy Technology Laboratory

9:25 a.m.                      *Technology Deployment Initiatives for EM*  
Thomas Heenan, Assistant Manager for Environmental Program (*Invited*)  
U.S. DOE Savannah River Operations Office

9:45 a.m.                      *Break*

### **Plenary Session II**

Session Chair: John L. Murphy, U.S. DOE NETL

10:05 a.m.                      *Long-Term Stewardship Program Overview*  
James Werner  
U.S. DOE Environmental Management, Office of Science and Technology

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10:30 a.m.		<i>Small Business Perspective</i> Judy Armstrong, President ADA Technologies, Inc.
10:50 a.m.		<i>Human Factors Assessment of Environmental Technology</i> Donald Carson International Union of Operating Engineers
11:15 a.m.		<b>Panel Discussion. Environmental Technologies Successes</b>  Moderator: Robert C. Bedick, U.S. DOE NETL  <ul style="list-style-type: none"> <li>• Science &amp; Engineering Associates, Inc.</li> <li>• 3M Corporation</li> <li>• Informatics Corporation</li> <li>• Electronic Sensor Technology</li> </ul>
12:30 p.m.		<i>Lunch</i>  <b>Technical Session 1. Future Opportunities in EM Science and Technology — Applied R&amp;D Needs, Technology Gaps, Long-Term Stewardship</b>  Session Chair: Robert C. Bedick, U.S. DOE NETL
1:30 p.m.	1.1	<i>Transuranic and Mixed Waste Focus Area Perspective</i> U.S. DOE Idaho Operations Office/Carlsbad Area Office
1:50 p.m.	1.2	<i>Subsurface Contaminants Focus Area Perspective</i> U.S. DOE Savannah River Operations Office
2:10 p.m.	1.3	<i>Tank Focus Area Perspective</i> U.S. DOE Richland Operations Office
2:30 p.m.	1.4	<i>Deactivation and Decommissioning Focus Area Perspective</i> U.S. DOE National Energy Technology Laboratory
2:50 p.m.	1.5	<i>Nuclear Materials Focus Area Perspective</i> U.S. DOE Albuquerque Operations Office/Idaho Operations Office

# Agenda (continued)

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3:10 p.m.      1.6      *Long-Term Stewardship Program — Initial Needs Assessment*  
U.S. DOE Idaho Operations Office

3:30 p.m.      *Break*

## **Technical Session 2. Tank Waste**

Session Chair: Jagdish L. Malhotra, U.S. DOE NETL

3:45 p.m.      2.1      *Additional Tests of an Advanced Vitrification System*  
Radioactive Isolation Consortium, LLC

4:10 p.m.      2.2      *Alternative HEPA Filter — CeraMem*  
CeraMem Corporation

4:35 p.m.      2.3      *Alternative HEPA Filter — Mott*  
Mott Corporation

## **Poster Session**

P.1      *Innovative Rotary Crossflow System for Volume Reduction of Mixed Hazardous and Rad Waste*  
SpinTek Systems, Inc.

P.2      *Research, Commercialization, and Workforce Development in the Polymer/Electronics Recycle Industry*  
West Virginia University

P.3      *Human Factors Assessments of Environmental Technologies*  
Operating Engineers' National Hazmat Program (OENHP)

P.4      *Hemispheric Center for Environmental Technology (HCET) at Florida International University*  
Florida International University

P.5      *High-Productivity Vacuum Blasting System*  
LTC Americas, Inc.

P.6      *Environmental Management Technology Demonstration and Commercialization*  
Energy & Environmental Research Center

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- P.7     *Hazardous Materials in Aquatic Environments of the Mississippi River Basin*  
Tulane University /Xavier University
- P.8     *Diagnostic Information and Analysis Laboratory*  
Mississippi State University
- P.9     *Technology Demonstration and Deployment for the U.S. DOE: University, Research Institution, and Industry Partnerships*  
The Institute for Central and Eastern European Cooperative Environmental Research, Florida State University
- P.10    *Technical Evaluation of Remediation Technologies for PU-Contaminated Soils at the Nevada Tests Site (NTS)*  
Clemson Environmental Technologies Laboratory
- 6:45 p.m.     *Social/Dinner at the Historic Clarion Hotel Morgan*  
(Dinner will begin at 7:30 p.m.)

### **Wednesday, October 18, 2000**

- 7:30 a.m.     *Registration/Continental Breakfast*
- 8:00 a.m.     *Welcome Back*

### **Technical Session 3. Deactivation and Decommissioning**

Session Chair: Steven J. Bossart, U.S. DOE NETL

- 8:05 a.m.     3.1     *Integrating International Technologies and Practices to Address DOE Needs*  
AEA Technology
- 8:30 a.m.     3.2     *Dual-Point Impedance Control for Telerobotics*  
University of Tennessee
- 8:55 a.m.     3.3     *Modular Manipulator for Robotics Application*  
Arm Automation, Inc.
- 9:20 a.m.     3.4     *Fast Response Isotopic Alpha Continuous Air Monitor (CAM)*  
Thermo Power Corporation

# Agenda (continued)

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9:45 a.m.      3.5      *An Innovative Electrode Decontamination and Waste Minimization Systems and Portable Detection Instrument*  
ADA Technologies, Inc.

10:10 a.m.      *Break*

## **Technical Session 4. Subsurface Contamination**

Session Chair: Karen L. Cohen, U.S. DOE NETL

10:30 a.m.      4.1      *Non-Invasive Determination of the Location and Distribution of DNAPLs by Seismic Reflection Technology*  
University of South Carolina

10:55 a.m.      4.2      *Xenon Ionization Detector for Cone Penetrometer Applications*  
Sentor Technologies, Inc.

11:20 a.m.      4.3      *Wireline Cone Penetrometer System for Multiple Tool Usage*  
Applied Research Associates

11:45 a.m.      4.4      *Surface-Altered Zeolites as a Permeable Barrier*  
New Mexico Institute of Mining and Technology

12:10 p.m.      4.5      *Demonstration of Subsurface Containment System for Installation of Barriers*  
RAHCO International Incorporated

12:35 p.m.      *Lunch*

## **Panel Discussion. Long-Term Stewardship Implementation**

Moderator: Jack Craig, U.S. DOE NETL

- Institute for Responsible Management — CRESP
- Tulane University/Xavier University
- NETL — Cost Compliance Initiative
- DOE Grand Junction Area Office

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## **Technical Session 5. University Research**

Session Chair: Edgar B. Klunder, U.S. DOE NETL

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|-----------|-----|-------------------------------------|
| 3:30 p.m. | 5.1 | Florida International University    |
| 3:55 p.m. | 5.2 | University of North Dakota — EERC   |
| 4:20 p.m. | 5.3 | Florida State University            |
| 4:45 p.m. | 5.4 | Mississippi State University — DIAL |
| 5:10 p.m. |     | <i>Adjourn</i>                      |

### **Thursday, October 19, 2000**

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|-----------|--|---|
| 7:30 a.m. |  | <i>Registration/Continental Breakfast</i> |
| 8:00 a.m. |  | <i>Welcome Back</i>                       |

## **Technical Session 6. Transuranic and Mixed Waste**

Session Chair: Ron K. Staubly

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|-----------|-----|--|
| 8:10 a.m. | 6.1 | <i>Innovative Fossil Fuel Fired Vitrification Technology for Soil Remediation</i><br>Vortec Corporation  |
| 8:35 a.m. | 6.2 | <i>Initial Development of Continuous Emissions Monitor for Dioxins</i><br>SRI International Corporation  |
| 9:00 a.m. | 6.3 | <i>Pulsed Gamma Neutron Activation Analysis (PGNAA) System for the Assay of RCRA Metals in Mixed Waste</i><br>Westinghouse Electric Company, LLC |
| 9:25 a.m. | 6.4 | <i>Surface Acoustic Wave Mercury Vapor Sensor</i><br>Sensor Research and Development Corporation   |
| 9:50 a.m. |     | <i>Break</i>   |



# Agenda (continued)

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## Technical Session 7. Small Business Innovative Research

Session Chair: Vijendra P. Kothari

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|------------|-----|--|
| 10:10 a.m. | 7.1 | <i>DOE Small Business Innovative Research Program Overview</i><br>U.S. DOE Environmental Management, Office of Science and Technology                        |
| 10:35 a.m. | 7.2 | <i>Pipe Taz Automated Insulation Removal System</i><br>Automatika, Inc.  |
| 11:00 a.m. | 7.3 | <i>Separation of Metal Ions from Liquid Waste</i><br>Applied Science, Inc.   |
| 11:25 a.m. | 7.4 | <i>A Photocatalytic Titanium Dioxide Anode and Membrane Reactor for the Enhanced Destruction of Chloro-Organic Compounds in Water</i><br>CeraMem Corporation |
| 11:50 a.m. | 7.5 | <i>An Advanced Avalanche-Photodiode Based Spectroscopic Radiation Imager</i><br>Radiation Monitoring Devices, Inc.   |
| 12:15 p.m. |     | <i>Closing Remarks</i>   |
| 12:30 p.m. |     | <i>Adjourn / Optional NETL Site Tour</i>   |

# General Information

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**Registration/Food Service Fee: \$80** (This fee covers the cost of continental breakfast, breaks, lunch, and dinner on Tuesday, October 17; continental breakfast, breaks, and lunch on Wednesday, October 18; and continental breakfast and a morning break on Thursday, October 19, 2000.

**All attendees, including presenters, must register for the conference.**

The registration deadline is October 9, 2000. To register, complete the registration form, and, if needed, the foreign national visitor's form, and mail or fax them to NETL Event Management. These forms are located in the back of this flyer.

Payment of the registration fee may be made by check, money order, or credit card. Make your check or money order payable to **The Energizer** and attach to your registration form, or complete the credit card information on the registration form. **Registration fees cannot be refunded after October 9, 2000.**

**Message and Fax Centers:** Message and fax centers will be staffed during the conference. The telephone number is 304 285-4764 and fax numbers are 404 285-4403 / 4469.

**Parking:** Parking spaces will be available at the National Energy Technology Laboratory.

## FOREIGN NATIONAL VISITOR NOTICE

All foreign nationals who wish to attend DOE sponsored conferences, meetings, workshops, or seminars are required to submit NETL Form F142.1-1 requesting a DOE unclassified visit. A minimum of 30 days advance notice is required for the review and approval process for unclassified foreign national visits. A foreign national is any person who is not a U.S. citizen and includes permanent resident aliens (PRAs or "green card holder").

NETL supports an active program of unclassified visits by foreign nationals. International cooperation and collaboration is an important element within our programs. NETL is required to ensure that these visits are conducted under prescribed conditions in a manner consistent with the U.S. Department of Energy's policies.

**The NETL Foreign National Visitor Form F142.1-1 is located in the back of this flyer. Submit the form as soon as possible to NETL Event Management, who will coordinate the process and make approval notification.**

## NETL EVENT MANAGEMENT INFORMATION

Phone: 304 285-4750 or 1-800-553-7681 Fax: 304 285-4459

E-mail: [confserv@netl.doe.gov](mailto:confserv@netl.doe.gov)

Web site: [www.netl.doe.gov](http://www.netl.doe.gov)

# Hotel Information

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Lodging arrangements are the responsibility of the attendees. Reservations are to be made directly with the hotel(s). You must reference the **Environmental Science and Technology Conference** to receive the rates listed below.

A block of rooms has been reserved at each of the following facilities. Room blocks will be released on Monday, October 9, 2000.

## **Euro-Suites Hotel**

Phone: 304 598-1000

Fax: 304 599-2736

Toll Free: 1-800-678-4837

\$75.00/Single    \$85.00/Double

Driving time to NETL: 5-7 minutes

## **Ramada Inn**

Phone: 304 296-3431

Fax: 304 296-3431

\$62.00 Single/Double

Free Shuttle to and from Morgantown Airport

Driving time to NETL: 15-20 minutes

## **Holiday Inn**

Phone: 304 599-1680

Fax: 304 598-0989

\$64.00 Single/Double

*Free Shuttle Service Provided*

Driving time to NETL: 10-15 minutes

## **Clarion Hotel Morgan**

Phone: 304 292-8200

Fax: 888 241-7944

\$64.00 Single/Double

Driving time to NETL: 20 minutes

## **Hampton Inn**

Phone: 304 599-1200

Fax: 304 598-7331

\$64.00 Single/Double

Driving time to NETL: 10 minutes

# Registration

## Industry Partnerships for Environmental Science and Technology Conference

(PLEASE PRINT OR TYPE)

Name \_\_\_\_\_

Affiliation \_\_\_\_\_

Address \_\_\_\_\_ MS - \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Zip Code \_\_\_\_\_ Country \_\_\_\_\_

Phone Number \_\_\_\_\_ Fax Number \_\_\_\_\_

E-mail Address \_\_\_\_\_

Do you request a vegetarian meal? ☐ Yes ☐ No

Are you a U.S. citizen? ☐ Yes ☐ No

If not, list citizenship \_\_\_\_\_

**Non-U.S. citizens wishing to attend must submit a Foreign National Visitor's form at least 30 days prior to the meeting. Please read the Foreign National Visitor Notice under General Information for instructions.**

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Make your check or money order for the registration fee payable to the **The Energizer** and mail to:

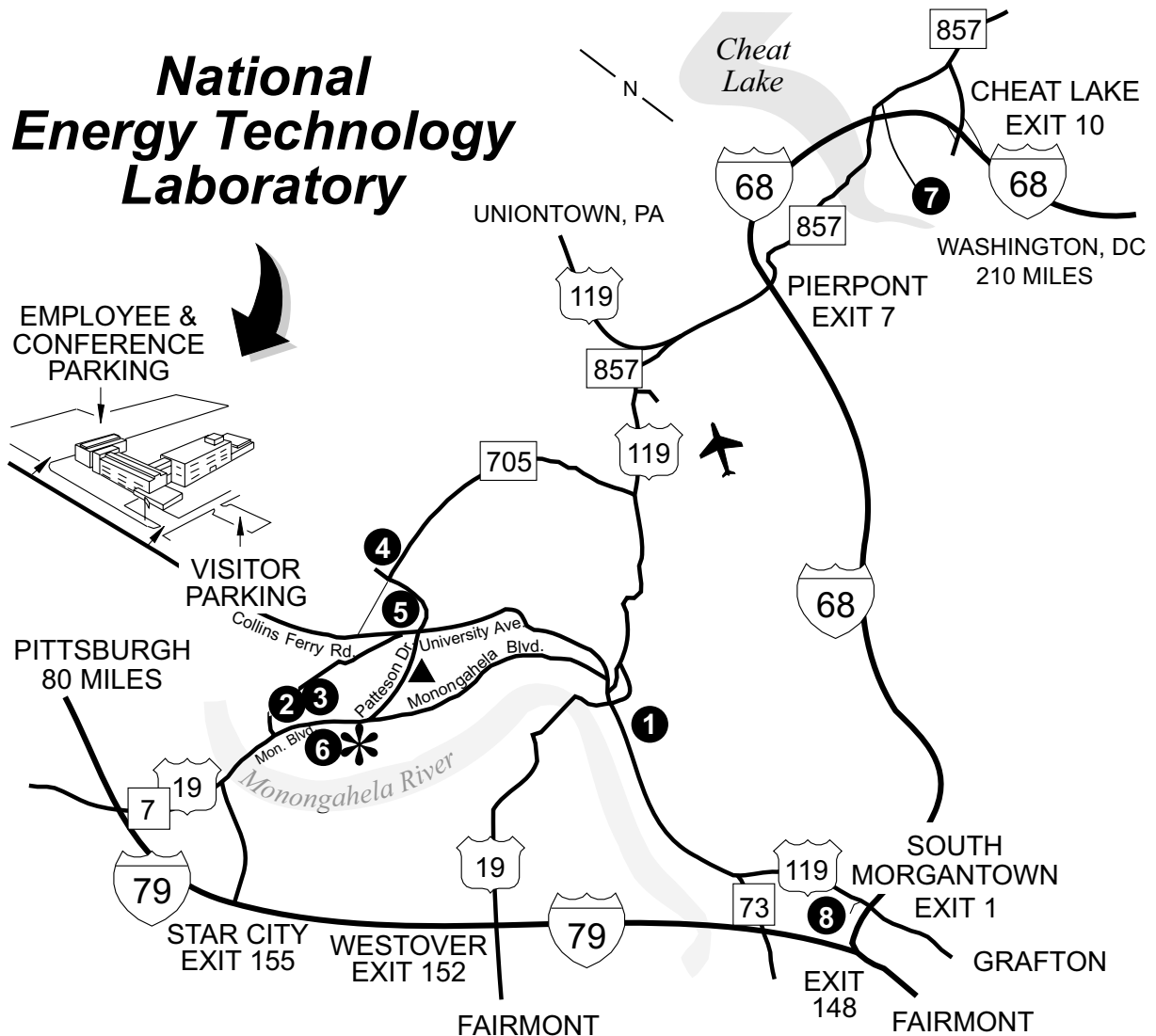
**NETL Event Management**  
National Energy Technology Laboratory  
P.O. Box 880, MS-K07  
3610 Collins Ferry Road  
Morgantown, WV 26507-0880

or complete the credit card information below and fax to **304 285-4459**.

☐ Visa ☐ MasterCard ☐ Discover ☐ American Express

Credit Card Account No.: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Exp. Date: \_\_\_\_\_ - \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_



# Morgantown, West Virginia



Erickson Alumni  
Center



West Virginia  
University  
Coliseum



LODGING:

- |                         |                    |
|-------------------------|--------------------|
| 1. Clarion Hotel Morgan | 5. Hampton Inn     |
| 2. Days Inn             | 6. Holiday Inn     |
| 3. EconoLodge           | 7. Lakeview Resort |
| 4. Euro-Suites Hotel    | 8. Ramada Inn      |

**U.S. DEPARTMENT OF ENERGY**  
**Request for Foreign National**  
**Unclassified Visit or Assignment**

PRIVACY ACT STATEMENT - Collection of the information is authorized pursuant to the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011, and the Department of Energy Organization Act, Pub. L. No. 95-91. The primary purpose of the requested information is to determine unclassified access to facilities operated by the Department of Energy (DOE) or its contractors. Access to the information collected may be provided to appropriate Federal agencies for law enforcement purposes. Collection of the information is mandatory. Failure to provide the information may result in denial of access to DOE or contractor facilities and their personnel.

**PART I - PERSONAL DATA**

1. Name of Visitor (Family, Given, Middle)		2. Visitor Number		3. Request Number	
4. Gender of Visitor Male [ ] Female [ ]		5. Place of Birth (City, Country)			6. Date of Birth (MON-DD-YYYY)
7. Country of Citizenship			8. Passport Number		9. Expiration Date (MON-DD-YYYY)
10. Immigrant Alien Y/N [ ]	11. Type of Visa		12. Expiration Date (MON-DD-YYYY)	13. Work Telephone	14. Fax Number
	11a. Visa No.				
15. Name and Address of Current Employer			16. Name and Address of Place of Work (if different from 15)		
Name:			Name:		
Street:			Street:		
City: State/Province:			City: State/Province:		
Zip Code: Division:			Zip Code: Division:		
Country:			Country:		
E-Mail Address:			E-Mail Address:		
17. Title, Position, or Description of Visitor's or Assignee's Duties					
17a. Subject Area of Visit/Assignment <b>Industry Partnerships for Environmental Science and Technology Conference</b>					